

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 11542	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/IT2005/000112	International filing date (day/month/year) 28/02/2005	(Earliest) Priority Date (day/month/year) 02/03/2004
Applicant PELTECH S.R.L.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐

With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐

Certain claims were found unsearchable (See Box II).

3. ☐

Unity of invention is lacking (see Box III).

4. With regard to the title,

the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 2



as suggested by the applicant.



as selected by this Authority, because the applicant failed to suggest a figure.



as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CODECASA M P ET AL: "Optimization of a new thermoelectric cooling assembly using cfd analysis and local modeling of thermoelectric effects" THERMOELECTRICS, 2003 TWENTY-SECOND INTERNATIONAL CONFERENCE ON - ICT LA GRANDE MOTTE, FRANCE AUG. 17-21, 2003, PISCATAWAY, NJ, USA, IEEE, 17 August 2003 (2003-08-17), pages 614-618, XP010697389 ISBN: 0-7803-8301-X figure 1	4,5
Y	----- EP 0 116 396 A (WELWYN ELECTRONICS LIMITED; CRYSTALATE ELECTRONICS LIMITED) 22 August 1984 (1984-08-22) the whole document	1-3
A	----- US 4 242 874 A (SIMMS ET AL) 6 January 1981 (1981-01-06) the whole document	1-5
A	----- EP 1 227 375 A (CITIZEN WATCH CO. LTD) 31 July 2002 (2002-07-31) the whole document	1-5
A	----- GB 2 381 377 A (* INTEGRATED TECHNOLOGIES) 30 April 2003 (2003-04-30) the whole document	1-5
A	----- US 5 939 667 A (OUDOIRE ET AL) 17 August 1999 (1999-08-17) the whole document	1-5
A	----- US 4 611 089 A (ELSNER ET AL) 9 September 1986 (1986-09-09) the whole document -----	1-5

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L35/32 H01L35/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01L F25B G04C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003/193087 A1 (HAYASHI TAKAHIRO ET AL) 16 October 2003 (2003-10-16)	1-3
Y	paragraph '0039! - paragraph '0052!; figures 3-6,15	4,5
Y	US 5 099 550 A (BEANE ET AL) 31 March 1992 (1992-03-31) the whole document	1-3
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

° Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

14 September 2005

Date of mailing of the international search report

20/09/2005

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IT2005/000112

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2003193087	A1	16-10-2003	NONE	
US 5099550	A	31-03-1992	NONE	
EP 0116396	A	22-08-1984	GB 2136212 A	12-09-1984
US 4242874	A	06-01-1981	NONE	
EP 1227375	A	31-07-2002	CN 1380994 A	20-11-2002
			DE 60101993 D1	18-03-2004
			DE 60101993 T2	30-12-2004
			WO 0192969 A1	06-12-2001
			US 2003007424 A1	09-01-2003
GB 2381377	A	30-04-2003	NONE	
US 5939667	A	17-08-1999	BR 9706459 A	29-06-1999
			FR 2758009 A1	03-07-1998
			GB 2320733 A	01-07-1998
			NO 976068 A	29-06-1998
US 4611089	A	09-09-1986	DE 3519771 A1	19-12-1985
			FR 2565735 A1	13-12-1985
			GB 2160358 A	18-12-1985
			JP 61039587 A	25-02-1986